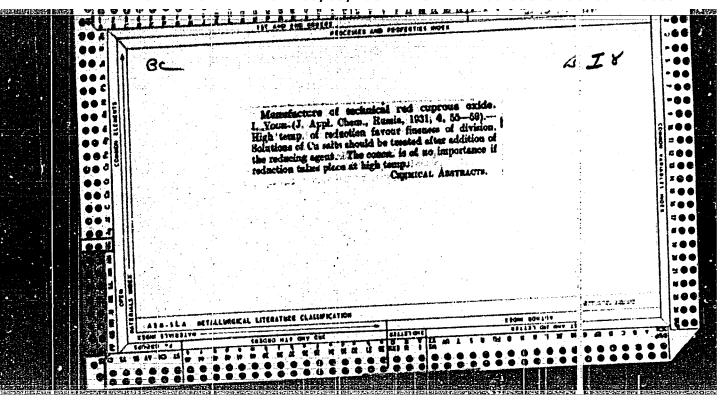


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VOUK, Vale, dr., prof., akad. (Zagreb, Tomislavov trg 8)

Research in Trateno and Boka Kotorska concerning the variations of the species Ruscus aculeatus. Ljetopis JAZU 63:396-399 '56 (publ.'59).

1. Prirodoslovno-matematicki fakultet Sveucilista u Zagrehu; zamjenik clanova Nadzornog odbora Jugoslavenske akademije znanosti i umjetnosti.

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"Auxins in forestry; the book Express Forests by D. Afanasijev." p. 1. Vol. 77, no. 1, Jan 1953, Zagreb, Yugoslavia)

SUMARSKI LIST,

SO: Monthly List of the East European Accessions, L. C., Vol. 2, No. 7, July 1953, Uncl.

#### CIA-RDP86-00513R001861110009-4 "APPROVED FOR RELEASE: 08/09/2001

VOUE, VALL

Youk, Vale. iroblend biologije termalnih veda u teoriji i u preksi. Zagreb (Jugoslavenske akodemija znanceti i unjetresti) 1951 33p. (Predavanja odrzana u Jugoslavenskoj akademiji, sv. 3) (Problems of the biology of thermal waters in theory and practice, Illus. bibl.)

SO: East European, IC, Vol. 2, Nol 12, Dec. 1953

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Vouk , liste

YUGOSLAVIA/General Division. General Questions. Philosophy. Methodology.

Abs Jour: Ref. Zmr. Biologiia, No 4, 1958, 14091.

Author: Youk Valle

Inst :

Title : The Unity of the Biological Sciences.

Ordg Pub: Glasnik biol. sek. Hrvatsko prirodosl. drustvo, 1953 (1955).

Ser. 2B, 7, 83-86.

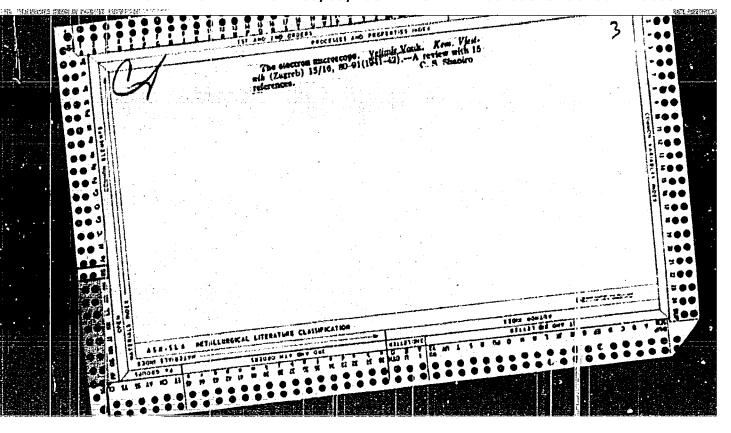
Abstract: The question of the bond between the biological disciplines is examined in its historic scheme. It is pointed out that the creation of such sciences as cytology, genetics, ecology, and physiology have already thrown across a bridge between plants and animals. The unification of the biological sciences in biology alone is characteristic of the XXth century.

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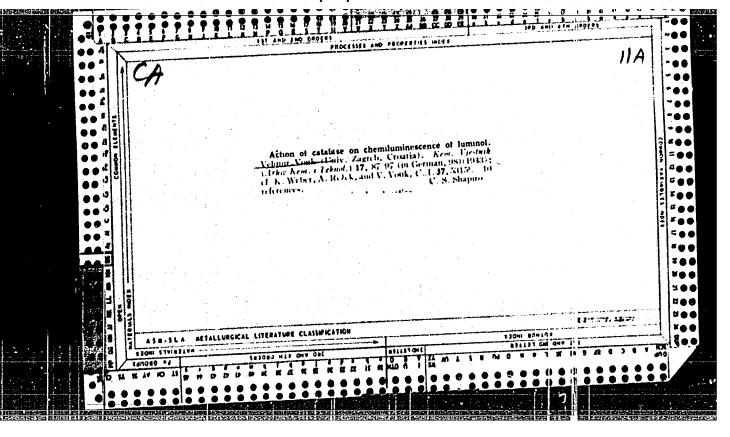
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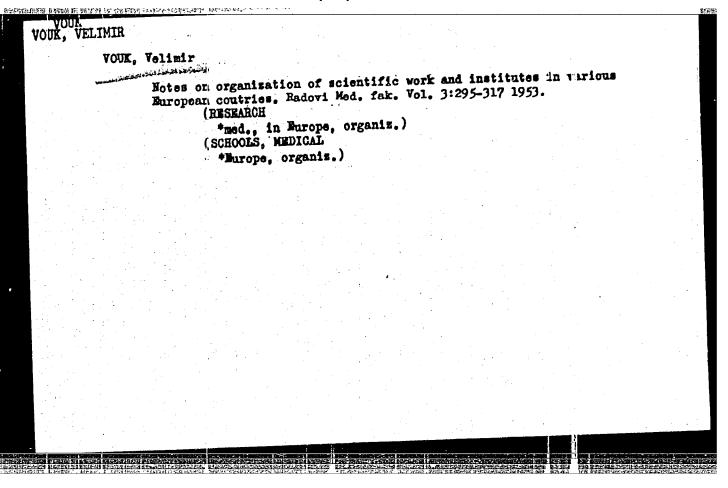


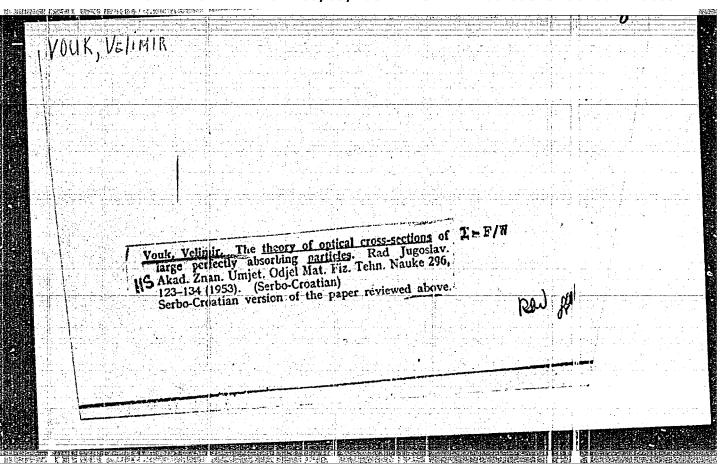
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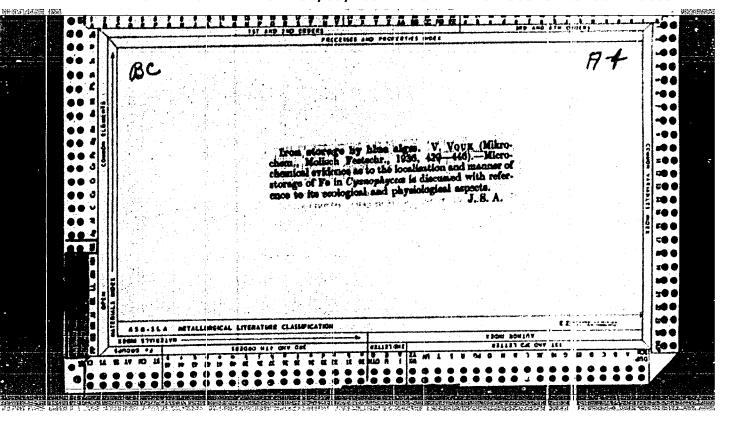


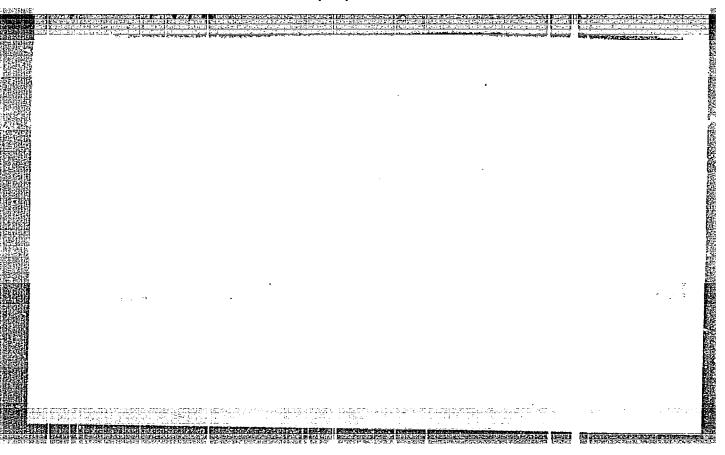


TIEFENBACH, Branka, dr.; BUZINA, Ratko, dr.; VOUK, Velimir, dr.

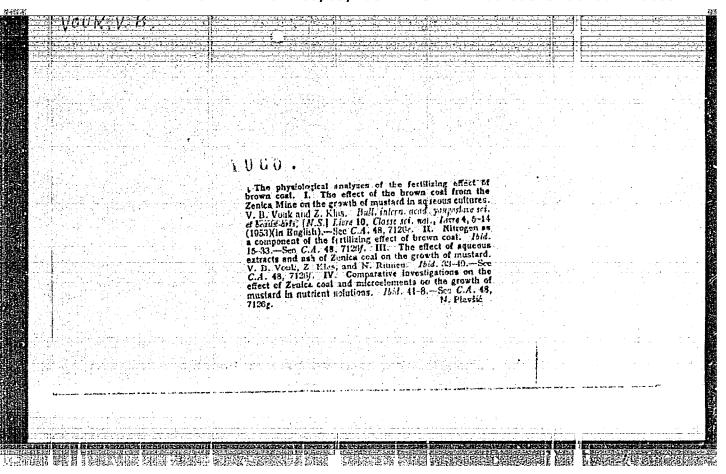
Value of certain blood variables in blood-donors in Magreb. Lijec. vjes. 81 no.9-10:637-645 159.

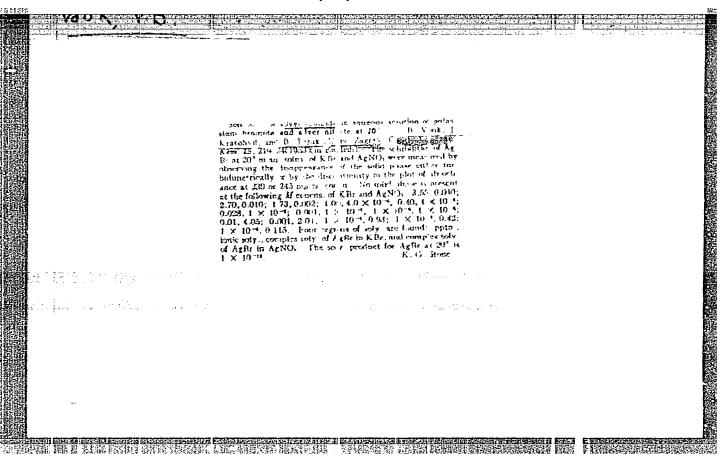
1. Iz Centralnog Higijenskog savoda u Zagrebu i Institutu sa medicinska istrazivanja Jugoslavenske Akademije snanosti i umjetnosti u Zagrebu. (BLOOD DONORS)





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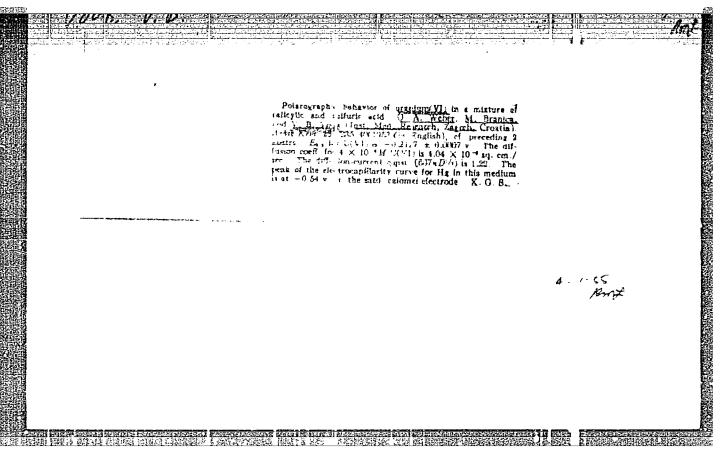


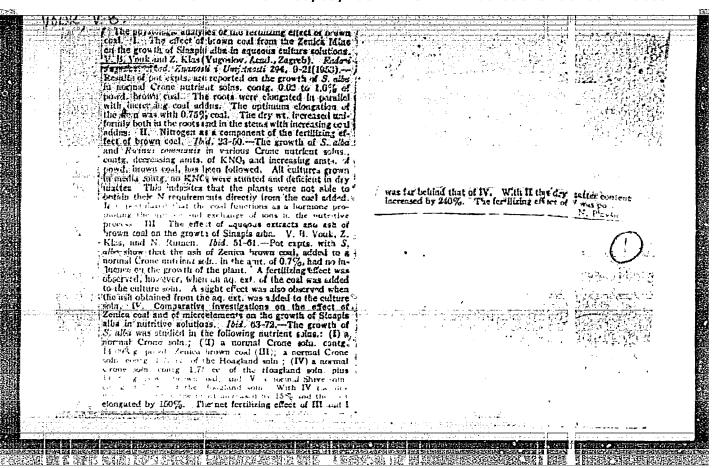


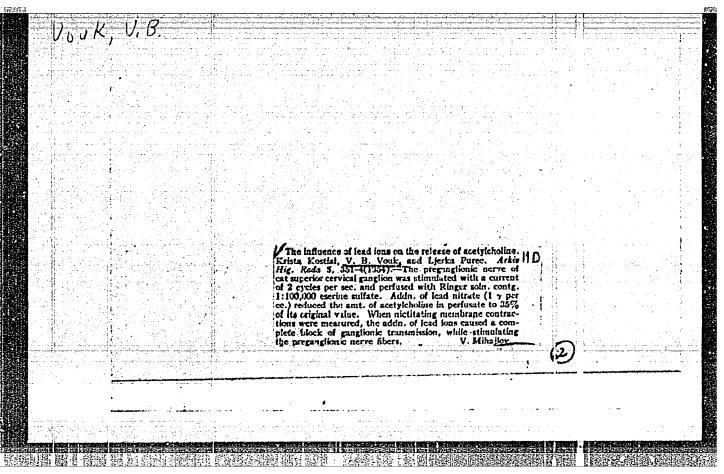
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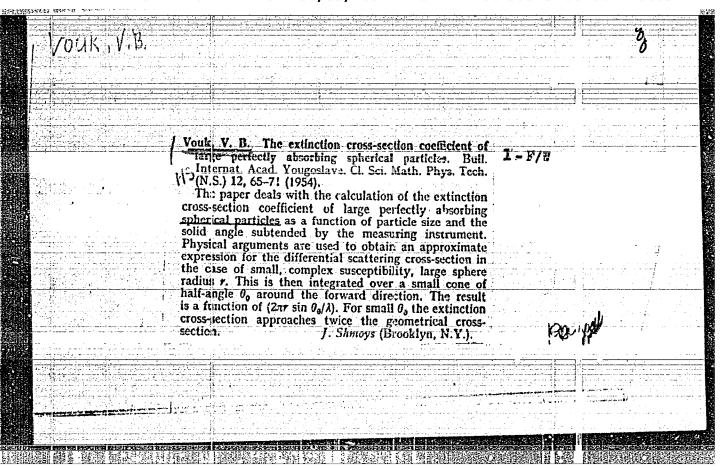
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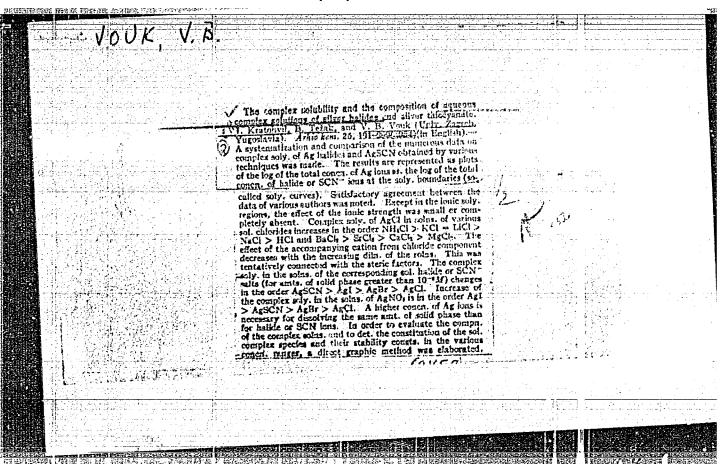
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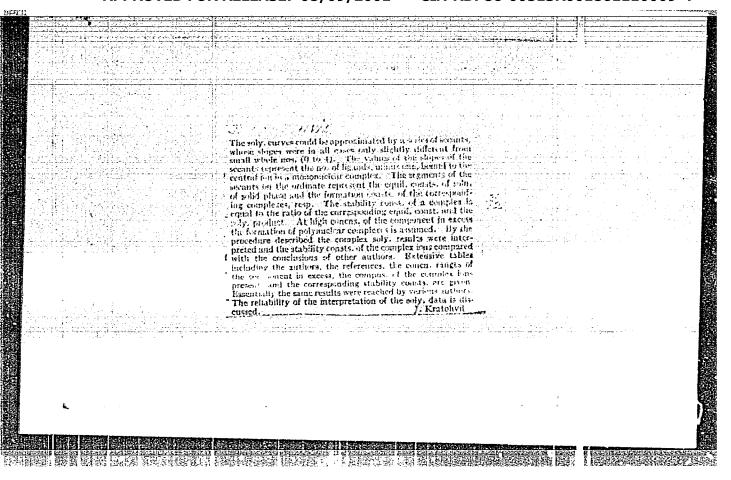












YOUK, Y.B. in collab.with Z. TOPOLNIK, F. VALIC AND O.A. WEBER.

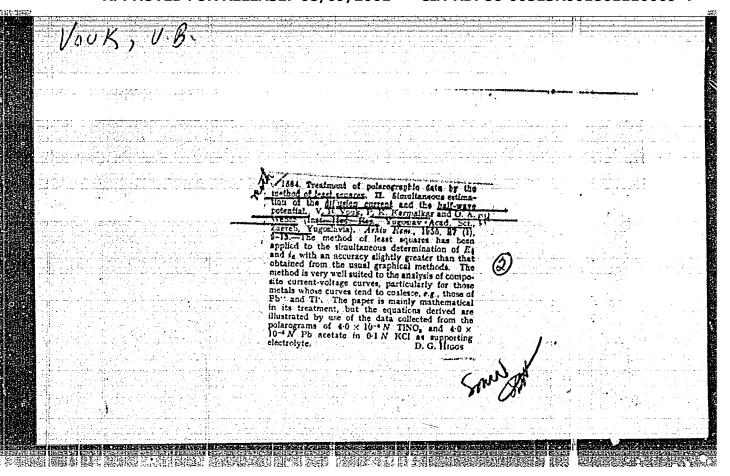
No translation. Arh.hig.reda 6 no.1:29-32 1955.

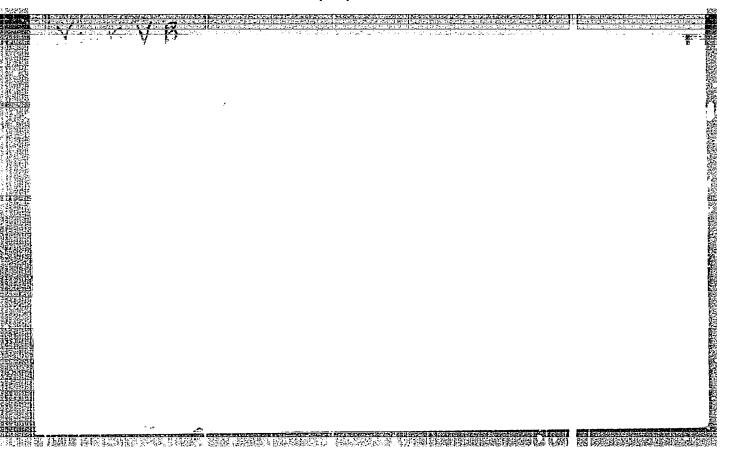
1. Institute of Industrial Hygiene, Yugoslav Academy of Sciences and arts. Zagreb.

(CASES,

exper.gas chamber, design & operation)







In Memorian Prof. A. Stampar. Struggle of Andrije Stampar for the reform of medical education. On first anniversary of his death. Radovi med. fak., Zagr bu 7 no.1:1-8 '59.

(OBITUARIES)

### YUGOSLAVIA

Krista KOSTIAL, Kata VOLODER, V.B. VOUK and O. WEBER, Institute for Medical Research and Occupational Medicine (Institut za medicinaka istrazivanja i medicinu rada), Zagreb.

"Effect of Chelating Agents on Renal Retention of Uranium."

Zagreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 13, No 4, 1962; pp 289-293.

Abstract [English summary modified]: In rats, 7.6 mg./Kg. of uranyl nitrate 1.p.: 28% of dose in renal tissue 3 hours after administration. Diethylene pentaacetic acid immediately after U reduced this to 12% (P=0.05) while hydroxydiphenylether phosphate paradoxically increased it to 55% (P between 0.01 and 0.02.) Latter chelating agent is assumed ineffective as potential therapeutic agent because the U complex formed with it is poorly water-soluble and cannot diffuse. Table, 7 Western and 1 unpublished Yugoslav reference.

1/1

KOSTIAL, Krista; VOLODER, Kata; VOUK, V.B.; WEBER, O.

The influence of chelating agents on uranium retention in the kidney.
Arh. hig. rada 13 no.4:289-293 '62.

1. Institut za medicinska istrazivanja i modicinu rada, Zagreb.
(EDATHAMIL) (URANIUM) (KIDNEY)

# VOUK, V.B.; POPOVIC, V. Methods for determination of radioactivity in the atmosphere. Arh. hig. rada 13 no.3:245-250 '62. 1. Institut za medicinska istrazivanja i medicinu rada, Zigreb. (AIR POLLUTION, RADIOACTIVE)

YOUTSEKHOVSKAYA, A.L.; KOSUL'NIKOVA, N.A.; RUDOL'FI, T.A.; DASHUNIA, V.M. BELOV, V.N. [deceased]

Transformations of 6-methyl-V-alkyl- &-valerolactones under the effect of polyphosphoric acid. Zhur. VKHO 10 no.6:702-703 (MIRA 19:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv. Sulmitted April 7, 2365.

VOVACHEK

CZECHOSLOVAKIA/General Section - Problems of Teaching.

Abs Jour : Ref Zhur - Fizika, No 4, 1957, 8281

Author : Vovachek

Title : Instrument for Demonstration of the Conversion of

Mechanical Energy Into Heat.

Orig Pub : Prirod. vedy skoly, 1956, 6, No 7, 650-651.

Abstract : No abstract.

Card 1/1

ACCESSION NR: AP4037175

8/0069/64/026/003/0296/0300

AUTHOR: Deynega, Yu. F.; Vovnenko, A. M.; Vinogradov, G. V.

TITLE: Electric conductivity of plastic dispersion systems under static and dynam-

ic conditions

SOURCE: Kolloidny\*y zhurnal, v. 26, no. 3, 1964, 296-300

TOPIC TAGS: lubricant electroconductivity, soap oil grease, plastoviscometer condenser, lubricant specific resistance, dielectric lubricant, electrokinetic phase change, electrolysis, lubricant elastic deformation

ABSTRACT: This electroconductivity was studied in soap-oil greases, with a rotatory plastoviscometer in which the interior and exterior cyclinders were isolated and which could be rapidly stopped serving as a condenser. The equipment is described in detail. Direct current resistance was measured with a mega: hmmeter. Standard error was \$\frac{1.5}{1.5} - \frac{10\pi}{10\pi}\$. Structural changes of the greases in the electric fields were determined by the polarization-optical method. The greases studied were sodium, calcium and lithium-based scaps thickened with mineral oil; 20.6\pi\$ Na soap of castor oil acids, 17.5\pi\$ hydrated Ca soap of cottonseed oil acids and 10\pi\$

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ACCESSION NR: AP4037175

technical Li stearate. A double electric layer is known to exist in soar oil greases on the boundary surface. Its presence is reflected in the dielectric characteristics of the lubricants. The typical soap-oil greases had a specific resistance of 1010 - 1014 ohm/cm (Li highest, Ca lowest). Upon applying a constant electric field, the specific resistance of these systems will increase with time. Change of the charge sign of the electrodes will cause a sharp drop of specific resistance. These effects were connected with various manifestations at the electrodes (e.g. electrolysis, and gas bubbles). As a result of electrolysis, water gradually disampears from the system, affording electrokinetic phase change. At the surface of the negative electrode a layer of the dispersion mediu: is formed. Simultaneously the structural framework is compressed at the positive electrode and the thickness of the boundary layer increases with the duration of electric field action. A drop of specific resistance occurs as a result of grease deformation. Upon abrupt stopping of the plastoviscometer-condenser, a sharp change of specific resistance is also registered. Under the influence of the force of inertia, elastic deformation of the structural framework takes place. This may rull the material off the rotor surface. Upon return of this framework, the material will again make contact with the rotor. This explains the rapidly alternating increase and decrease of specific resistance upon sharply decelerating the system.

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## VOVCHENKO, A.S., inzh.

Some problems of determining the labor input in beet sugar manufacture. Pishch. prom. no.2:3-7 '65. (MIRA 18:11)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

VOVCHENKO, D., kand. biolog. nauk

Control of crown-gall disease. Zashch. rast. ot vred. f. bol. 10 no.10:58-59 '65. (MIRA 10:12)

1. Meyevskaya opytnaya stantsiya sadovodstva.

VOVCHENKO, D. Prof.

"200th Anniversary of Moscow University," Vest. Vysshey Shkol; , No.5, 1955

Moscow State University im. Lomonosov

German abstract dn p. 70, Das Hochschulersen, Vol.3, 1955

SAVKOVSKIY, P.P., nauchn. sotr.; ISAYEVA, Ye.V., nauchn. sotr.; OLEFER,
A.V., nauchn. sotr.; SHCHERBAKOV, V.V., nauchn. sotr.; POVZUN,
I.D., nauchn. sotr.; MASLO, Ye.M., nauchn. sotr.; KRYLOVA,
A.S., nauchn. sotr.; MATVIYEVSKIY, A.S., nauchn. sotr.;
VASIL'KOVA, A.K., nauchn. sotr.; VOVCHENKO, D.P., nauchn. sotr.;
BOGDAN, L.I., nauchn. sotr.; GROTTE, G.M., nauchn. sotr.;
SKUTSKAYA, N.P., red.; DAKHNO, Yu.B., tekhn. red.

[Pests and diseases of fruit and berry crops] Vrediteli i bolezni plodovo-iagodnykh kultur; spravochnik. Kiev, Izd-vo AN Ukr.SSR, 1962. 275 p. (MIRA 16:7) (Fruit—Diseases and pests)

PRIDANTSEVA, Ye.A., nauchnyy sotrudnik; FONIROVSKIY, V.N. (Khar'kov'; GRACHEV, A.F.; VOVCHENKO, D.P., kand. biolog. nauk; CHEMODINOVA, Ye.V., kand. sel'skokhoz. nauk; KALINICHENKO, A.N.; PETRUSHOVA, N.I., kand. sel'skokhoz. nauk; GVCHARENKO, G.V.; FLORINSKAYA, G.N.; DROZDOVSKIY, E.M.; DROZDOVSKIY, E.M.; MATLASHENKO, Ye.V., uspirantka

Brief news. Zashch. rast. ot vred. i bol. 9 no.7:50-53 164. (MIRA 18:2)

1. Dal'nevostochnaya opytnaya stantsiya Vsesoyuznogo nauchio-issledovatel'skogo instituta rasteniyevodstva (for Grachev).

2. Mleyevskaya opytnaya stantsiya sadovodstva, Cherkasskaya oblast' (for Vovchenko).

3. Velikolukskiy sel'skokhozyaystvennyy institut (for Chemodanova).

4. Altayskaya opytnaya stantsiya sadovodstva, Barnaul (for Kalinichenko).

5. Nikitskiy botanicheskiy sad (for Petrushova, Ovcharenko).

6. Moldavskiy institut sadovodstva, vinogradarstva i vinodeliya, Kishinev (for Florinskaya).

7. Nauchno-issledovatel'skiy zonal'nyy institut sadovodstva nechernozemnoy polosy (for Drozdovskiy).

8. Tadzhikskiy rauchno-issledovatel'skiy institut sel'skogo khozyaystva (for Matlashenko).

VOVCHENKO, D.P., kand. biolog. nauk

Rosette disease of apple. Zashch. rast. ot vred. i bol. 9 no.12:19-20 '64. (MIRA 18:4)

1. Mleyevskaya opytnaya stantsiya sadovodstva imeni L.P. Simirenko, Unerkasskaya oblasti.

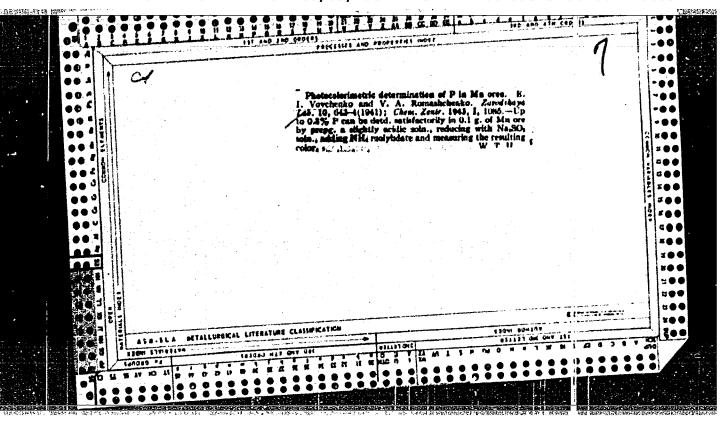
[Pests and diseases of fruit and berry plants; a manual] Vrediteli i bolezni plodovo-iagodnykh kul'tur; spravochnik. Kiev, Naukova dumka, 1965. 287 p. (MIRA 18:9)

别是解别 國際重視 医医疗法疗法 化二苯基苯基 医二甲基苯基甲基酚

VOVCHENKO, D. P.

VOVCHENKO, D. P. -- "Brownness of Pear Seedlings and Measures to Co bat It in the Forest-Steppe Zone of the Ukrainian SSR." Ukrainian Sci Res Inst of Fruit Growing. Mleyev Sci Res Station of Fruit Growing. Mleyev 1955. (Dissertation for the Degree of Candidate of Agricultural Sciences.)

SO: Knizhnava letopis', No. 4, Moscow, 1956



STAKAN, G.A.; SOSKIN, A.A.; VOVCHENKO, F.Ya.

Heritability of some characters in fine-wool sheep. Biu MOIP. Otd. biol. 68 no.6:122-132 N-D '63.

(MIRA 17:1)

STAKAN, G.A.; SOSKIN, A.A.; VOVCHENKO, F.Ya.

Method of rating herd rams by the quality of the progeny. Sib. otd. AN SSSR no.11:103-113 '61. (MIRA 1 :1)

(Rams)

STAKAN, G.A.; SOSKIN, A.A.; VOVCHENKO, F.Ya.

Heritability of live weight in fine-zool sheep.lzv. SO AN SSSR no.8 Ser. biol.-med. nauk no.2:109-116 '64 (MIRA 18:1)

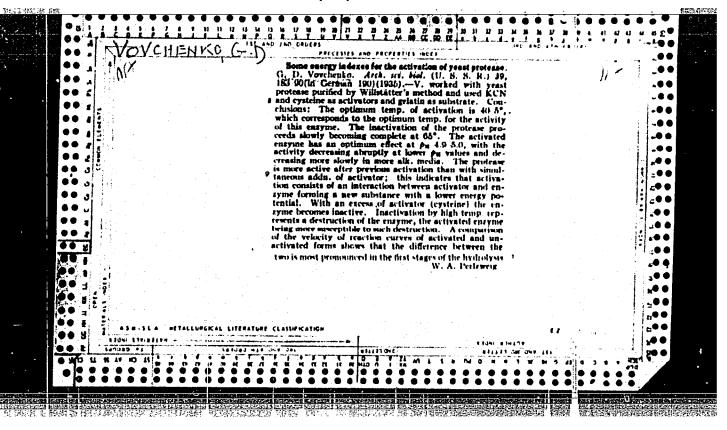
1. Institut tsitologii i genetiki Sibirskogo otdoleniya AN SSSR, Novosibirsk.

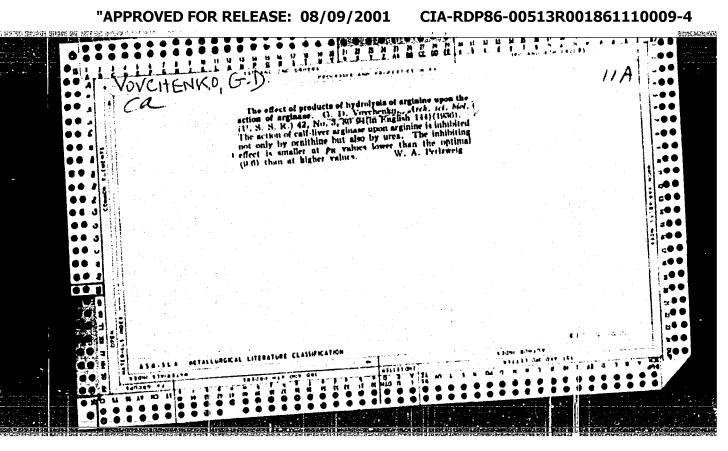
VOVCHENKO, G. D.

S. V. Vasil'ev and G. D. Vovchenko - "The action of nitrogen tetroxide on ethyl cinnamate." (p. 1236)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1920, Vol. 20, No. 7.

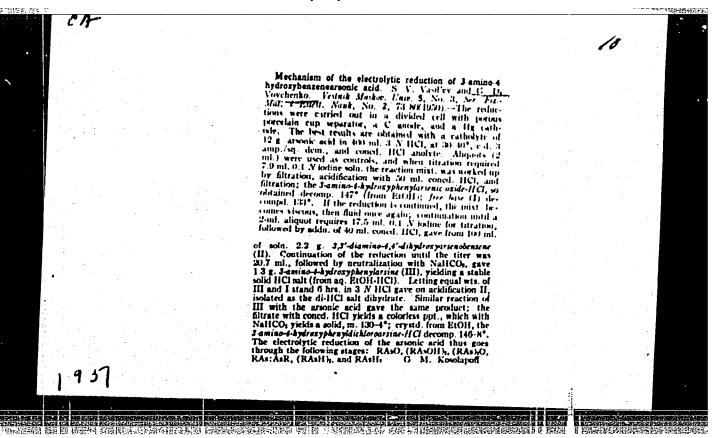
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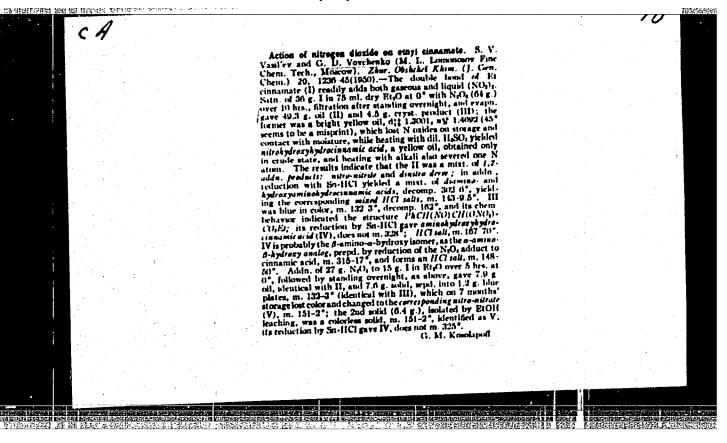


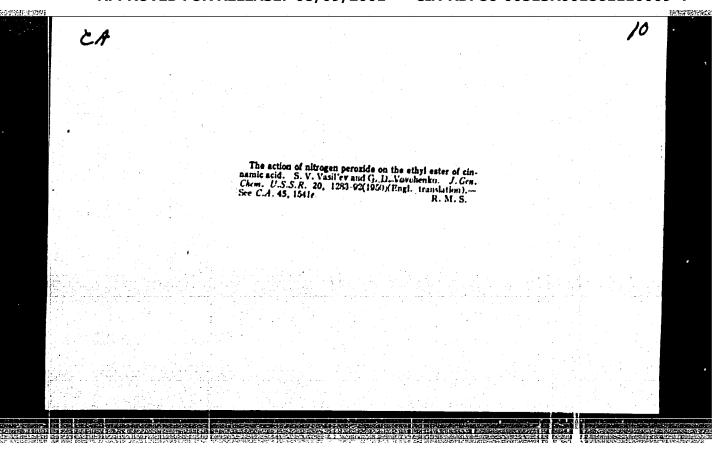


USER/Medicine - Drugs, Injections Jan/Feb 49 Fedicine - Drugs, Engly Injections, "C. D. Vorchenko, A. G. Hatraile, I. Magnind, Ye. R. Taitrin, All-Union Sci. S. I. Magnind, Ye. R. Taitrin, All-Union Sci. Bes Chemicophar Inst imeni S. Ordnhonkidze, 6.pp Hed From SSER" No 1 Output of solutions in ampoules for injection is figures as follows: up to 5 cc ampoules 168 million, 5 - 10 cc, 13 million, and 20 - 50 cc 5 million.  **Station of Medicine - Drugs, Injections Jan/Feb 49 (Contd) Above outputs are insufficient to satisfy demand. Solutions of 46 different kinds are prepared in ampoules. Discusses measures to increase quantity and quality of production. Mentions following factories: Imeni Semsahko, Mescow No 9, Tbilisi, Riga No 6, Novosibirsk Oblast Dept of CAPU, and Stavropol Dept of CAPU.  14/49765

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4"





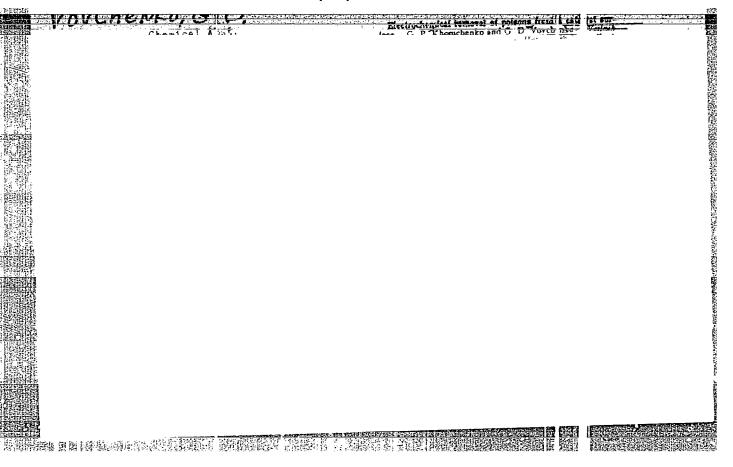


APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4"

- 1. VOVCHENKO, G. D.
- 2. USSR (600)
- 4. Proteins
- 7. Sulfhydryl groups in a protein molecule. Vest. Mosk.un No. 10 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4"



PETROVSKIY, I.G.; VOVCHENKO, G.D.; SALISHCHEV, K.A.; SERGEYEV, E.M.;

MOSKVITIM, V.V.; SHETERRIY, L.V.; GEL'FOND, A.D.; GOLUENV, 7.V.;

ALEKSANIROV, P.S.; SCBOLEV, S.L.; BAKHYALOV, B.B.; OGUBALOV, P.M.;

KREYNES, M.A.; HYASNIKOV, P.V.; ZHIDKOV, M.P.; GAL'PERN, S.A.;

ZHEGALKINA-SLUDSKAYA, M.A.

Vsevolod Aleksandrovich Kudriavtsev; obituary, Vest.Mosk.un. 8

(MIR. 7:2)

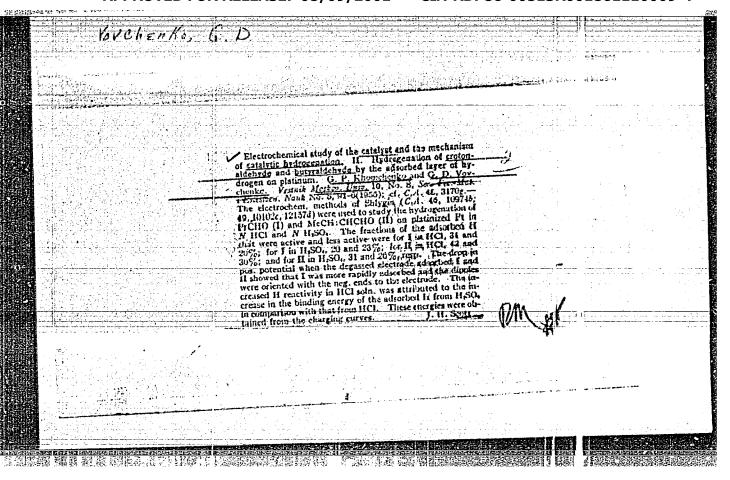
no.12:129 D '53.

(Kudriavtsev, Vsevolod Aleksandrovich, 1885-1:53)

VOYCHENKO, G., professor.

The palace of Soviet science. Biul. VME no.5-6:77-81 8-0 '54.
(MLRA 7:9)

1. Prorektor Moskovskogo gosudarstvennogo universiteta im.
M.V.Lomonosova.
(Moscow university)



USSR/ Scie	ntific organization - Higher education
Card 1/1	Pub. 124 - 1/39
Authors	Noveheako, G. D., Prof., and Saltanov, Yu. A.
Title	The 200th anniversary of the Moscow University
Periodical	€ Vest. AN SSSR 25/5, 3 - 15, May 1955
Alsetract	* Some facts regarding the founding of the Moscow M. V. Lone losev Univer
	sity and subsequent history are presented, with particular stress on supposedly political significance of this institution as vivity. Brineferences are made to the organization and work of the various departments of the University. The Administy of Doiences of the U.B., at which first professors of the University were trained, in remarded as a marent organization and the subsequent close cooperation ( tween the Acedemy and the University is discussed.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4"

# VOYCHENKO, G.D. redaktor

[Moscow University; a brief sketch of its departments and specialties]
Moskowskii universitet; kratkii ocherk fakul tetov i spetsinl nostei
dlia postupaiushchikh v MGU. Pod red. G.D. Vovchenko. [Moskwa, 1956.
50 p. (MERA 9:11)

1. Moscow. Universitet.
(Moscow Universitet)

NOVCHEN	ENKO, Gavriil Platonovich; YOVCHENKO, G.D., prof., red.; FLOR ANOVICH, G.M., red.; GEORGIYEVA, G.I., tekhn.red.	
	[Manual of laboratory experiments in general chemistry] Laboratornyi praktikum po obshchei khimii. [Moskva] Izd-vo Mosk.univ., 1957. 181 p. (MIRA 10:12)	
	(ChemistryLaboratory manual)	

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4"

AUTHOR:

Vovchenko, G.D., Professor, and Saltanov, Yu.A. 3-6 13/29

TITLE:

The Problems Raised by "Letter M-100" to be Solved More Actively (Aktivneye reshat' zadachi, postavlennyye "Phs'mom M - 100"). Some Results and Proceeds. (Nekotoryye itogi i perspektivy).

'PERIODICAL:

Vestnik Vysshey Shkoly, 1957, # 6, pp 58 - 62 (USSR)

ABSTRACT:

The article contains a review of the results gained in realizing the basic principles of the instructive letter of the USSR Ministry of Higher Education of 15 September 1956, at the faculties of natural science of the Moscow University

The afficie contains a review of the results gained in realizing the basic principles of the instructive letter of the USSR Ministry of Higher Education of 15 September 1955, at the faculties of natural science of the Moscow University (Moskovskiy Universitet). The staffs of these faculties have revised, and the Ministry has approved, new teaching glans on 17 specialities in order to comply with the demand that highly qualified specialists be trained. New courses have been introduced which reflect the latest achievements in science. Courses are held in nuclear physics (102 hours) and atomic physics (86 hours) for all students of the Faculty of Physics. Laboratory work is conducted on radiometric methods (72 hours) at the Faculty of Chemistry. Instead of state examinations, the students of all faculties of natural science, except the Mechanico-Mathematical Faculty, have to

Card 1/3

3-6-13/29

The Problems Raised by "Letter M -100" to be Solved More Actively. Sime Results and Prospects.

defend their graduation theses before a session of the State Examination Commission. This increased the demands placed on the graduates. Though experience has shown that the new plans still contain some deficiencies as a whole, they can be regarded as satisfactory. The new plans mean a reduction in lecturing hours and increased time for practical training. The article also deals with the plans for a further resization of the recommendations of the ministerial letter, and suggests that methodical sections be organized at the University Council on Natural Sciences. It will be their object to direct the methodical work of the faculties, to study the experience of the individual chairs and make certain that the plan of methodical work is carried out by the chairs. The article then emphasizes the necessity for a considerable improvement in the study of foreign languages. It complains about the lack of textbooks, even for important courses and quotes a number of cases in this respect. The article urther discusses the organization of the student's practical draining pointing out that its value is also underestimated by

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3.5-13/29

The Problems Raised by "Letter N - 100" to be Solved More Actively. Some Results and Prospects.

> Mcscow University, where recently students of the Mechanics-Mathematical Faculty had no time for practical training at production sites. In May 1957, a scientific-methodical conference conducted an analysis of independent work. Among the 9 reports delivered were those from Professor Academician S.I. Vol'fkovich. He pointed out that in May-June, practical work was carried out for 7 weeks at 16 chemical, metallurgical and oil-refining plants in Moscow, Ural, Donbass, Baku, Riga and Dzerzhinsk. Reports were also delivered by Prof. Ye.A. Kuznetsov, Prof. G.D. Vilenskiy, A.Ye. Zdorov, Prof. G.K. Tushinskiy, Prof. N.P. Remezov, Dotsent A.V. Gelymin, Senior Instructor K.N. Blagosklonova and Dotsent L.Ya. Kraush. In conclusion the article states that the realization of "Letter N -100" has only begun at Moscow University. Much organizational and methodical work must still he done.

ASSOCIATION: Moscow State University imeni M.V. Lomonosov (Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova)

AVAILABLE Card 3/3

Library of Congress

VOVCHENKO, G.D.

AUTHORS:

Vovchenko, G.D., Professor Kolesnikov, A.G., Professor

26-10-6/44

TITLE:

Contribution of the Scientists of the Metropolitan University (Vklad uchenykh stolichnogo universiteta)

PERIODICAL:

Priroda, October 1957, No 10, pp 49-52 (USSR)

ABSTRACT:

Scientists of the Moscow State University contribute to the International Geophysical Year by working on 19 different scientific problems. Members of the faculty of physics study the composition of atmospheric ozone in different altitudes, observe the aurora borealis from special stations in the Arctic and study the structure of the ionosphere. Important research work is conducted in the field of microseisms. As such observations require very sensitive appliances, the faculty of physics had to develop special measuring devices: a sea turbulimeter and a radioactive turbulimeter, the first of their kind in the world. The study of cosmic rays is conducted by the Institute of Physics at Moscow University. Institute of Astronomy imeni P.K. Shternberg in cooperation with the Time Service of the Institute are collecting data that will permit better and more exact determination of time. Astrophysicists of the Institute conduct observations of the

Card 1/2

Contribution of the Scientists of the Metropolitan University 26-10-6/44

at Alma-Ata is performing observations of zodiacil lights and counter radiances under the supervision of the Institute. The faculty of geography has dispatched three teams, one for the study of meteorological problems, the other two to investigate glaciers. An expedition to the Pacific Ocean is being prepared by the faculty of geology for research in the article contains one photo.

ASSOCIATION:

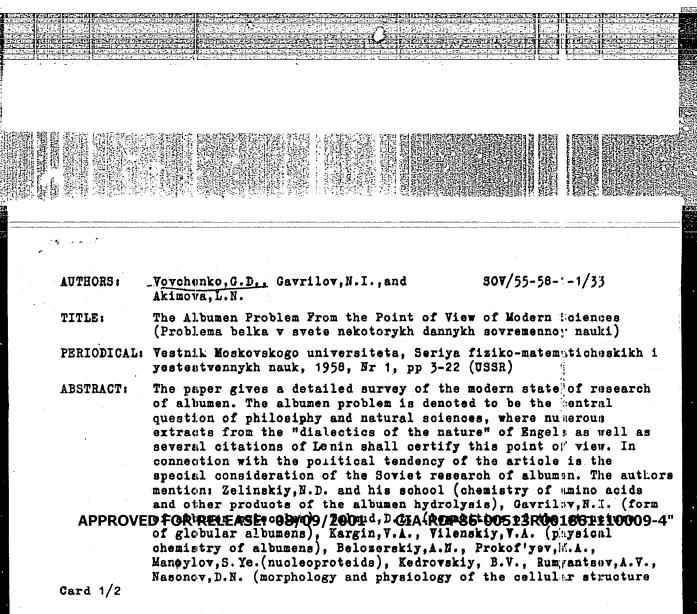
Moscow State University Imeni M.V. Lomonosov (Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosovs)

AVAILABLE:

Library of Congress

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4"



The Albumen Problem From the Point of View of Modern Sciences SOV/55-58-1-1/33

of albumens), Engel'gardt, V.A., Lyubimova, M.N. (demounting of albumen in muscles), Pavlov, I.P., Danilevskiy, A.Ya., Bakh, A.N., Blagoveshchenskiy, A.V. (ferments and their synthesis), Pryanishnikov D.N. (change of nitrogen of plants), Orekhovich, V.N. (cellular albumen), Konikova, A.S., Kritsman, M.G. (changes of albumen as a carrier of life).

There are 48 references, 31 of which are Soviet, 2 Swiss, 8 German, 5 American, 1 Italian, and 1 Swedish.

THE PROPERTY OF A PROPERTY OF THE PROPERTY OF

ASSOCIATION: Laboratoriya khimii belka imeni akad. N.D.Zelinskogo (Laboratory of Albumen Chemistry imeni Academician N.D.Zelinskiy)
SUBMITTED: August 29, 1957

Card 2/2

LOUCHENITO, G.D.

AUTHOR:

Vovchenko, G.D., Professor, Prorector

25-58-4-6/41

TITLE:

Following the IGY Program (Po programme MGG)

PERIODICAL:

Nauka i Zhizn', 1958, Nr 4, pp 17-18 (USSR)

ABSTRACT:

The Moscow State University (MGU) is participating in the work of the IGY. Its Physics Faculty has the following tasks:

1) investigation of the ozone content of the atmosphere; 2) observation of polar light; 3) observation of the ionosphere, including the formation and decomposition of ionospheric layers;
4) absorbtion of radiowaves by the ionosphere and investigations of its non-homogeneous structure; 5) distances between ionospheric layers and the speed of chaotic movements in the ionosphere;
6) determination of typhoon, storm and cyclone locations over the Indian Ocean by microseismic waves, with the aid of specially designed instruments and improved methods; 7) an investigation, with the aid of unique instruments, of the speed of transfer of heat and radioactive elements between the surface and the bottom of the sea, due to water movement; 8) an investigation of cosmic rays in an automatic underground station situated at a depth of 60 m. The MGU Astronomical In-

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Following the IGY Program

25-58-4-6/41

stitute is also investigating the Earth's irregular rate of rotation, continent movements, solar activities and radiation lines in the Solar spectrum. Latitudinal oscillations and the movement of geographic polos will be observed from a special station. The Geography Faculty is planning three expeditions to the East Pamir, the El'brus and the Khibiny mountains, to carry out meteorological and glaciologic observations. It will also carry out investigations of the Earth crist in the Pacific. There are 2 photographs.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova

(The Moscow State University imeni Lomonoscv)

AVAILABLE: Library of Congress

Card 2/2 1. Physics 2. Ionosphere-Study and teaching 3. Meteorology

### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4

22(1) 30(1) SOV/3-59-4-36/42

AUTHORS:

Vovchenko, G.D., Professor; Saltanov, Yu.A.

TITLE:

The Scientists of the Moscow University - to Agriculture

PERIODICAL:

Vestnik vysshey shkoly, 1959, Nr 4, pp 81-85 (USSR)

ABSTRACT:

For the last 5 years the Departments of Biology and Soil, Geography and Economy of Moscow University have conducted important research work which has helped to raise agricultural production. The author tells of these researches and of the prospects of their development. The basic task of Moscow University is to train specialists. During the last 5 years, 440 of its graduates were assigned to work in agriculture. Among them were 265 soil scientists working at present in selection stations, melioration expeditions, scientific-productional agricultural institutions, etc. The greatest work in the field of agriculture is being done by the Department of Biology and Soil. The importance of the research in respect to dividing the USSR into districts according to natural-historical aspects is pointed out. This is a great

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The Scientists of the Moscow University - to Agriculture

comprehensive work of dividing the country into soil and geobotanical districts, the oceans and seas according to biological aspects. Ten universities, 5 agricultural institutes and academies of sciences of Union republics participate in it. The general scientific-methodological guidance is placed on the Moscow university. The working out of all these problems will permit to issue scientifically based recommendations for the distribution, specialization and rational utilization of various branches of agriculture. The 21st CPSU Congress raised the demand for an utmost utilization of soils. But as the arable kolkhoz and sovkhoz land differs in the various natural zones, it is necessary to register the lands and to determine the prospective productivity of the soil. The basic form of such registration is to draw up large-scale soil maps giving the characteristic of the soils and indicating the measures required for raising fertility. In 1958, University scientists completed the collection of field materials in 5 oblasts of the Central Non-Black-Soil Zone and drew up a map of soil districts of all the 11 oblasts

Card 2/6

The Scientists of the Moscow University - to Agriculture

of this zone. At present, an analysis of the soils, collected by the expedition, is being carried out. The drawing up of a map of the soil districts of the European part of the U.SSR in a scale of 1: 1,500,000 is being completed. Among the important works accomplished lately by the Department of Biology and Soil is the examination of 1.5 million hectares of virgin and long-fallow lands in the Kazakh SSR for the purpose of selecting areas for establishing new sovkhozes. This work was carried out in the Kustanay Oblast in 1958. The scientific workers also study the biology of development of corn and methods for its cultivation in the Moscow Oblast . The results proved that corn can be raised under certain condictions even in unfavorable years. In the field of animal husbandry, the research of the Chair of Genetics and Selection has shown the great practical importance of acclimatizing the Jersey strains of cattle in the Moscow district, and interbreeding this kind with those bred in the USSR for the purpose of obtaining higher yields of milk with a higher content of fat. The Department of Biology and Soil has also worked out methods for a joint

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The Scientists of the Moscow University - to Agriculture

sowing of winter and spring wheat in spring. This method, when applied on the fields of the kolkhozes of the Shchelkovo District, saved labor in ploughing and resulted in a considerable crop increase. Among other works performed by this department the author mentions soil and geobotanical investigations of the Kama, Belaya and Vyatka River basins in connection with the planned construction of the Lower Kama Hydroelectric Power Station. In cooperation with the AS USSR the chairs of the Department have studied the soil of the district between the rivers Zeya and Bureya, where the main agricultural raw material basis of the Far East is being established. The author also points out the work of the Department of Geography. As a result 200 kolkhozes and sovkhozes have been supplied with maps describing the natural and economic conditions of the oblasts. He further mentions the activity of the Economic Department in calculating the cost price and establishing the profitableness of kolkhozes in the Ryazan' Oblast . The Chair of Chemical Technology is developing the technology of producing fertilizers,

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SOV/3-59-4-36/42

The Scientists of the Moscow University - to Agriculture

secticides and fungicides. In cooperation with other institutions the Chemical Department has been seeking for means protecting animals from bloodsucking insects and ticks. Over 300 preparations have been synthesized. One of them -Kyuzol - has successfully passed productional and laboratory tests and been admitted for uso on a broad scale. Tests have proved that "Kyuzol" and analogical agents can also be used for protecting domestic animals from blood-sucking flies and mosquitoes of the diptera order. The Tadzhikskeya SSR is the only place in the USSR where long-fibered cotton is growing. tivation of this valuable sort of cotton needs artificial irrigation and for this purpose big and complicated engineering constructions. In this connection the Geological Department is studying the sagging and suffusion ("suffoziya") phenomenon which often destroy the constructions and the irrigated land. After having quoted all the performed positive work, the author expresses dissatisfaction on the activity of several of the leading chairs of the Department of Biology and Soil and sets forth the problems on which the university will work

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4"

· The Scientists of the Moscow University - to Agriculture

in the forthcoming 7 years. These include measures to increase the fertility of newly cultivated land. It will continue to develop the genetic foundations of the selection of agricultural plants and animals in the light of Michurin's teachings. The future plans also envisage that the work of dividing the USSR into districts according to natural and historical aspects be finished and that recommendations on the specialization of agriculture be furnished. The article contains a number of other tasks which the University intends to fulfill within the 7-Year Plan. There are 2 Soviet references.

ASSOCIATION: Moskcvskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov).

Card 6/6

S/055/59/000/06/23/027 B004/B002

AUTHORS:

Khomchenko, G. P., Pletyushkina, A. I., Vovchenko, G. ).

TITLE:

The Electrochemical Investigation of Catalysts and the Mechanism of Catalytic Hydrogenation. IV. Hydrogenation and Adsorption of

Allyl Benzenejon a Platinum Catalyst

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, No. 6, pp 186 - 193

The authors used the method described in Refs. 1 and 2. On the electrode 0.2g of finely disperse platinum is deposited from a 2% solution of platinum chloride. The actual platinum surface was 15,000 cm2, the adsorption papacity of hydrogen was 2.4.10<sup>-5</sup> gram-atoms, with 74% of the surface being covered by H<sub>2</sub>. The electrolyte used was 0.1 N  $H_2SO_4$ . Fig. 1 shows the reaction with 0.5 mole/1 of allyl benzene. The potential shift is only low. Hence, only a frabtion of the H, adsorbed on the electrode enters into reaction. If N, passes through the solution, the hydrogenation is accelerated due to more thorough mixing. After the occurrence of the steady potential, the hydrogen which did not enter into Card 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4" The Electrochemical Investigation of Catalysts and the Mechanism of Catalytic Hydrogenation.

IV. Hydrogenation and Adsorption of Allyl Benzene on a Platinum Catalyst

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S/055/59/000/06/23/027 B004/B002

author by examining the influence of catalyst poisons. From the data of Figs. 1, 2 the kinetics of the distance between H2 and catalyst during hydrogenation was determined. As shown by Fig. 3, hydrogen is irregularly linked with the electrode: 12.5% is in an active state and reacts quickly, 54.2% is less active, and 33.3% is inactive. The number of active centers of the catalyst was found to be 0.9.10<sup>18</sup>. As to its reactivity, allyl benzene is therefore inferior to crotonaldehyde and butyric aldehyde (Ref. 1). The investigation of the electrolytic reduction of allyl benzene yielded a low reaction rate below the potential of the hydrogen electrode (Fig. 4). Only within the range of overvoltage it is more intensive. Fig. 5 shows the potential change in the adsorption of allyl benzene of different concentrations on the degasified catalyst. A comparison of electrolytic hydrogenation of the allyl benzene adsorbed on the catalyst (Fig. 6) (for results see Figs. 1,2) yields the kinetic curve of its adsorption, and of its hydrogenation rate (Fig. 7).

reaction by anode polarization was found to be 33.3% (Fig. 2). Only hydrogen with a low bond energy (up to 0.1 v) was reactive. At present, the role of the bond energy of hydrogen during hydrogenation is being investigated by the

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#### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110009-4

The Electrochemical Investigation of Catalysts and the Mechanism of Catalytic Hydrogenation. IV. Hydrogenation and Adsorption of Allyl Benzene on a Platinum Catalyst

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Adsorption is much faster than hydrogenation and therefore cannot have a limiting effect. From the potential shift towards the anode it is concluded that allyl benzene is deposited at the positive ends of its dipole. The dipole moment  $\mu$  was 0.1.10-18 absolute electrostatic units. There are 7 figures and 3 Soviet references.

ASSOCIATION: Kafedra obshchey khimii (Chair of General Chemistry)

SUBMITTED: May 25, 1959

Card 3/3

69793

8/055/59/000, 06/25/027 B004/B002

5.1190

AUTHORS: Tsintsevich, V. M., Khomchenko, G. P., Vovchenko, G. N.

TITLE:

Processes of Adsorption and Reduction of Butinediol on a

Platinum Catalyst

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, rekhaniki,

astronomii, fiziki, khimii, 1959, No. 6, pp. 205 - 209

TEXT: Experiments were conducted by means of an electrode of finely disperse platinum deposited on platinum. The actual surface of the electrode was 33,000 cm<sup>2</sup>.

The adsorption capacity of hydrogen was  $2.7.10^{-5}$  gram-atoms in 0.1 N HBr, and 38% of the catalyst were covered with H<sub>2</sub>. Fig. 1 shows the course of the butinedial

adsorption on the degasified catalyst surface (Curve I), and the reduction of butinediol by means of the hydrogen layer adsorbed on the catalyst (Curve II). Assuming that the potential difference  $\triangle \gamma$  in the first approximation is proportional to the adsorption Fig. of butinediol molecules, the kinetic curve of the adsorption of organic substance was determined (Fig. 3, Curve I) by means of the charge curve of Fig. 2. The potential shift shows that butinediol is deposited on the electrode with the negative end of its dipole. The dipole moment  $\mu$  was

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Processes of Adsorption and Reduction of Butinediol on a Platinum Catalyst

69793 8/055/59/000/06/25/027 B004/B002

found to be 1.2.10<sup>-18</sup> absolute electrostatic units. The reduction course given in Fig. 3, curve II, shows that the adsorption and reduction rates differ but little, so that the former may have a limiting effect. Fig. 4 shows the reduction of butinediol by means of adsorbed hydrogen, and its electrolytic reduction. In both cases the H adsorbed enters into reaction. Fig. 4 shows that only 55% are less active and 19% inactive (has a low binding potential), whereas 26% are less active and 19% inactive. The influence of catalyst poisons (As, Hg) on 5 Soviet references.

ASSOCIATION: Kafedra obshchey khimii (Chair of General Chemistry)

SUBMITTED: July 7, 1959

Card 2/2

# VOVCHENKO, G. [Vovchenko, H.]

On the road to continuous progress. Sil' bud. 9 no.8:1-6
Ag '59. (MIFA 12:12)

1.Zamestitel' predsedatelya ispolnitel'nogo komiteta Chernovitskogo oblastnogo soveta deputatov trudyashchikhsya.

(Chernovtsy Province--Farm building)

LEVSHIN, Leonid Vadimovich; VOYCHENKO, G.D., prof., otv.red.; BERNSHTEYN, S.B., prof., red.; VILENSKIY, D.G., prof., red.; GOHDEYEV, D.I., prof., red.; GUDZIY, N.K., prof., red.; ZAYONCHKOVSKIY, P.M., prof., red.; KECHEK'IAN, S.F., prof., red.; MEL'NIKOVA, K.P., kand.nauk, red.; POLYANSKIY, F.Ya., prof., red.; RYBNIKOV, K.A., prof., red.; SKAZKIN, S.D., akademik, red.; SOLOV'YEV, A.N., dotsent, red.; ZAYTSEVA, M.G., red.; (EORGIYEVA, G.I., tekhn.red.

Sergei Ivanovich Vavilov. Moskva, Izd-vo Mosk.univ., 1960, 101 p. (Zamechatelinye uchenye Moskovskogo universiteta, no.24).

(MIRA 12:6)

(Vavilov, Sergei Ivanovich, 1891-1951)

KHONCHENKO, G.P.; GRISHINA, T.M.; KRASHIKOVA, L.Ya.; PLETYUSHIINA, A.I.; TSINTBEVICH, V.M.; VOYCHENKO, G.D.

Behavior of adsorbed hydrogen in reactions of hydrogenation of organic substances on platinum and rhodium electrodes-catalysts. Part 1. Vest. Hosk. un. Ser. 2: Khim. 15 no.5:39-46 S-0 10. (MBA 1::11)

1. Moskovskiy gosudarstvennyy universitet, kafedra obshchty khimit.
(Hydrogen) (Hydrogenation)

#### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4

KHOMCHENKO, G.P.; GRISHINA, T.M.; KRASHIKOVA, L.Ya.; PLETYUSHKINA, A.I.; TSINTSEVICH, V.M.; VOVCHENKO, G.D.

Behavior of certain organic substances in hydrogenation reactions on platinum andrhodium catalyst electrides. Vest. Mosk. un. Ser. 2: Khim. 15 no.6:30-32 N-D '60. (MIPA 14:2)

1. Kafedra obshehey khimii Moskovskogo universiteta.
(Hydrogenation) (Platinum) (Rhodlum)

BAKHVALOV, Sergey Vladimirovich: VOVCHENKO, Q.D., prof., otv.red.;

BERNSHTMIN, S.B., prof., red.; VILENSKIY, D.G., prof., red.
[deceased]; GCRLDIEV, D.I., prof., red.; GUDZIY, F.E., prof.,
red.; ZAYONCHKOVSKIY, P.A., prof., red.; KECHER'YAM, S.F.,
prof., red.; MKL'NIKOVA, K.P., kand.nauk, red.; POLYANSKIY,
F.Ya., prof., red.; RYBNIKOV, K.A., prof., red.; SKAZKIN,
S.D., akademik, red.; SOLOV'YEV, A.H., dotsent, red.;
GOL'DENBERG, G.S., red.; GEORGIYEVA, G.I., tekhn.red.

Nil Aleksandrovich Glagolev. Moskva, Izd-vo Mosk.univ.,
1961. 29 p. (Zamechatel'nye uchenye Moskovskogo universiteta,
no.28).

(Glagolev. Nil Aleksandrovich, 1888-1945)
(Nomography (Mathematics))

(Geometry, Projective)

REMEZOV, Nil Petrovich; VOVCHENKO, G.D., prof., otv. red.; GONDETEV, D.I., prof., red.; CUDZIV, N.K., prof., red.; ZAYONCHKOVSKIY, P.A., prof., red.; KECHEK'YAN, S.F., prof., red.; MEL'NIKOVA, K.P., kand. geologomineralog. nauk, red.; POLYANSKIY, F.Ta., prof., red.; RYBNIKOV, K.A., prof., red.; SKAZKIN, S.D., ekad., red.; SOLOVYEV, A.I., dots., red.; KOROETSOVA, N.A., red.; MASLENNIKOVA, T.A., tekhm. red.

[Vladimir Vasil'evich Gemmerling] Vladimir Vasil'evich Gemmerling. Moskva, Izd-vo Mosk. univ., 1961. 57 p. (h.IRA 14:7) (Gemmerling, Vladimir Vasil'evich, 1880-1954)

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[Laboratory manual in general chemistry and qualitative analysis with the use of the semimicromethod] Praktikum po obshchei klimii i kachestvennomu analizu s primeneniem polumikrometoda.

Izd.2., perer. i dop. Moskva, Izd-vo Mosk. univ., 1961. 391. p.

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no.12:157-160 '62. (Mira 15:4)

(Moscow University)

SEMENOVA, A. D. H KHOMCHENKO, G. P., VOYCHENKO, G. D.

Reduction and electroreduction of organic substances on platinized platinum. Part 2: Effect of the composition of electrolyte on the catalytic reduction of allylbenzens. Vest. Mosk. un. Ser. 2: Khim. 16 [i.e.17], no.6:51-54 N-D '62. (MIRA 16:1)

1. Kafadra obshchey khimii Moskovskogo universiteta.

(Benzene) (Reduction, Electrolytic)

SEMENOVA, A.D., KHOMCHENKO, G.P.; PLETYUSHKINA, A.I.; VOVCHENKO, G.D.

Reduction and electroreduction of organic substances on a platinized platimum. Part 1: Behavior of allylbenzene, propenylbenzene, and cheethylstyrene on a surface of platinum electrode. Vest.Mosk. un. Ser.2:khim. 17 no.1:49-54 Ja-F '62. (MIRA 15:1)

1. Moskovskiy gosudarstvennyy universitet, kafedra obshch y khimii. (Benzene) (Styrene) (Electrodes, Platinum)

:	Electrochemical electrodes. Re no.2:53-56 Mr-	port No.1.	on of rhodium au Vest.Mosk.un.Se	nd osmium catar.2: Khim. 1	talyst- 17 (MHA 15:4)	
	1. Kafedra obsh (Electrodes,	chey khimii Rhodium) (	Moskovskogo uni Electrodes, Osm	versiteta. ium) (Electro	ochenistry)	

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S/189/63/000/001/005/008 D204/D307

AUTHORS: Tsintsevich, V. M., Khomchenko, G. P. and Vovchenko,

G. D.

TITLE: The effect of the structure of organic compounds on

their reduction and adsorption

PERIODICAL: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 1, 1963, 27-31

TEXT: The reduction and adsorption properties of butynediol-1,4 (I), tetramethylbutynediol-1,4 (II) and 1,4-dimethyl-1,4-diethylbutyne-

trode which also served as a catalyst (true surface 17000 cm<sup>2</sup>).

83% of the electrode surface was covered with atomic hydrogen. It was found that the rates of catalytic reduction of I, II and III in the adsorption layer of hydrogen and of electroreduction decreased in the order I>II>III. The rates of electroreduction were very low but increased rapidly as the electrode potential became less positive (i.e. with a decrease in the adsorption potential

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The effect o	f the		S/189/63, D204/D30	/000/001/0 7	05/008	
at 0.6 V. and	. Adsorption of reaction with	atomic hyd	lrogen showed	d that bot	h the	
order I > II >	bility and reac III. There are	7 figures	and 2 table	₿,		
ASSOCIATION:	Kafedra obsho mistry)	hey khimii	(Department	of Genera	1 Che-	
SUBMITTED:	May 22, 1961					
						1.
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GRISHINA, T.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D. Electrochemical study of rhodium and osmium electrode-catalysts. Part 2: Effect of poisoning on the capacity of rhodium electrode. Vest. Nosk. un. Ser. 2: Khim. 18 no. 1:48-51 Ja-F '63. MIRA 10 (MIRA 16:5)

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110009-4" STOYANOVSKAYA, T.N.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Behavior of the ruthenium electrode during deep anodic polurization. Vest.Mosk.un.Ser.2:Khim. 18 no.2:20-21 Mr-Ap '63. [MIRA 16:5]

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Electrodes, Ruthenium) (Polarization (Electricity))

KRASNIKOVA, L. Yn; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Effect of arsenic on the catalytic and electrolytic reduction of crctonic and maleic acids on platinum. Vest. Mosk. un. 3er. 2 Khim. 19 no.2:33-36 Mr-Ap'64 (MIRA 17:5)

1. Kafedra obshchey khimii Moskovskogo universiteta.